

Joseph A Madri

List of Publications by Year in descending order

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116
papers

7,661
citations

31976

53
h-index

53230

85
g-index

117
all docs

117
docs citations

117
times ranked

8187
citing authors

#	ARTICLE	IF	CITATIONS
1	Altered vascular permeability and early onset of experimental autoimmune encephalomyelitis in PECAM-1-deficient mice. Journal of Clinical Investigation, 2002, 109, 383-392.	8.2	259
2	Paracrine and Autocrine Functions of Neuronal Vascular Endothelial Growth Factor (VEGF) in the Central Nervous System. Journal of Biological Chemistry, 2002, 277, 11410-11415.	3.4	239
3	Neuronal VEGF expression correlates with angiogenesis in postnatal developing rat brain. Developmental Brain Research, 2000, 119, 139-153.	1.7	225
4	PECAM-1: old friend, new partners. Current Opinion in Cell Biology, 2003, 15, 515-524.	5.4	216
5	Loss of MMP-2 disrupts skeletal and craniofacial development and results in decreased bone mineralization, joint erosion and defects in osteoblast and osteoclast growth. Human Molecular Genetics, 2007, 16, 1113-1123.	2.9	202
6	Dependence on pH of polarized sorting of secreted proteins. Nature, 1987, 329, 632-635.	27.8	199
7	A macroporous hydrogel for the coculture of neural progenitor and endothelial cells to form functional vascular networks in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2512-2517.	7.1	196
8	Endothelial growth factors and extracellular matrix regulate DNA synthesis through modulation of cell and nuclear expansion. In Vitro Cellular & Developmental Biology, 1987, 23, 387-394.	1.0	195
9	Extracellular Matrix-Degrading Proteinases in the Nervous System. Brain Pathology, 1994, 4, 145-156.	4.1	194
10	Paracrine and Autocrine Functions of Brain-derived Neurotrophic Factor (BDNF) and Nerve Growth Factor (NGF) in Brain-derived Endothelial Cells. Journal of Biological Chemistry, 2004, 279, 33538-33546.	3.4	183
11	Transforming growth factor beta1 modulates extracellular matrix organization and cell-cell junctional complex formation during in vitro angiogenesis. Journal of Cellular Physiology, 1990, 142, 117-128.	4.1	179
12	Modeling the neurovascular niche: VEGF- and BDNF-mediated cross-talk between neural stem cells and endothelial cells: An in vitro study. Journal of Neuroscience Research, 2006, 84, 1656-1668.	2.9	179
13	Collagen types I, III, and V in human embryonic and fetal skin. American Journal of Anatomy, 1986, 175, 507-521.	1.0	170
14	Egr-1 Mediates Extracellular Matrix-driven Transcription of Membrane Type 1 Matrix Metalloproteinase in Endothelium. Journal of Biological Chemistry, 1999, 274, 22679-22685.	3.4	168
15	Altered vascular permeability and early onset of experimental autoimmune encephalomyelitis in PECAM-1-deficient mice. Journal of Clinical Investigation, 2002, 109, 383-392.	8.2	168
16	Matrix Metalloproteinase 9 Facilitates West Nile Virus Entry into the Brain. Journal of Virology, 2008, 82, 8978-8985.	3.4	151
17	Selective Activation of Th1- and Th2-like Cells in vivo ? Response to Human Collagen IV. Immunological Reviews, 1991, 123, 65-84.	6.0	133
18	PECAM-1 shedding during apoptosis generates a membrane-anchored truncated molecule with unique signaling characteristics. FASEB Journal, 2001, 15, 362-372.	0.5	128

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19	Enhanced Susceptibility to Endotoxic Shock and Impaired STAT3 Signaling in CD31-Deficient Mice. American Journal of Pathology, 2005, 166, 185-196.	3.8	127
20	Major histocompatibility complex (MHC) control of CD4 T cell subset activation. II. A single peptide induces either humoral or cell-mediated responses in mice of distinct MHC genotype. European Journal of Immunology, 1992, 22, 559-565.	2.9	120
21	Platelet endothelial cell adhesion molecule, PECAM-1, modulates cell migration. Journal of Cellular Physiology, 1992, 153, 417-428.	4.1	113
22	Nonlinear partial differential equations and applications: Disrupted synaptic development in the hypoxic newborn brain. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15729-15734.	7.1	107
23	Platelet-Endothelial Cell Adhesion Molecule-1 (CD31), a Scaffolding Molecule for Selected Catenin Family Members Whose Binding Is Mediated by Different Tyrosine and Serine/Threonine Phosphorylation. Journal of Biological Chemistry, 2000, 275, 21435-21443.	3.4	104
24	PECAM-1 (CD31) Expression Modulates Bleeding Time in Vivo. American Journal of Pathology, 2000, 157, 75-81.	3.8	103
25	Targeted proteomics effectively quantifies differences between native lung and detergent-decellularized lung extracellular matrices. Acta Biomaterialia, 2016, 46, 91-100.	8.3	103
26	ENPP1-Fc prevents mortality and vascular calcifications in rodent model of generalized arterial calcification of infancy. Nature Communications, 2015, 6, 10006.	12.8	102
27	Cell Migration in the Immune System: the Evolving Inter-Related Roles of Adhesion Molecules and Proteinases. Autoimmunity, 2000, 7, 103-116.	0.6	101
28	Engineering angiogenesis following spinal cord injury: a coculture of neural progenitor and endothelial cells in a degradable polymer implant leads to an increase in vessel density and formation of the blood-spinal cord barrier. European Journal of Neuroscience, 2009, 29, 132-145.	2.6	98
29	Platelet Endothelial Cell Adhesion Molecule-1 Is Phosphorylatable by c-Src, Binds Src-Src homology 2 Domain, and Exhibits Immunoreceptor Tyrosine-based Activation Motif-like Properties. Journal of Biological Chemistry, 1997, 272, 14442-14446.	3.4	93
30	MMP-2 null mice exhibit an early onset and severe experimental autoimmune encephalomyelitis due to an increase in MMP-9 expression and activity. FASEB Journal, 2004, 18, 1682-1691.	0.5	91
31	Transcription Factor Sp1 Phosphorylation Induced by Shear Stress Inhibits Membrane Type 1-Matrix Metalloproteinase Expression in Endothelium. Journal of Biological Chemistry, 2002, 277, 34808-34814.	3.4	89
32	Elevated glucose inhibits VEGF-A-mediated endocardial cushion formation. Journal of Cell Biology, 2003, 160, 605-615.	5.2	88
33	Distinct roles for matrix metalloproteinase-2 and α_4 integrin in autoimmune T cell extravasation and residency in brain parenchyma during experimental autoimmune encephalomyelitis. Journal of Neuroimmunology, 2000, 109, 121-131.	2.3	86
34	An acellular human amnionic membrane model for in vitro culture of type ii pneumocytes: The role of the basement membrane in cell morphology and function. Journal of Cellular Physiology, 1984, 121, 215-225.	4.1	83
35	Astrocyte-derived VEGF mediates survival and tube stabilization of hypoxic brain microvascular endothelial cells in vitro. Developmental Brain Research, 2001, 130, 123-132.	1.7	83
36	Lack of Platelet Endothelial Cell Adhesion Molecule-1 Attenuates Foreign Body Inflammation because of Decreased Angiogenesis. American Journal of Pathology, 2003, 162, 953-962.	3.8	81

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37	PECAM-1 Affects GSK-3 β -Mediated β -Catenin Phosphorylation and Degradation. American Journal of Pathology, 2006, 169, 314-324.	3.8	77
38	Characterization of RAGE, HMGB1, and S100 β in Inflammation-Induced Preterm Birth and Fetal Tissue Injury. American Journal of Pathology, 2009, 175, 958-975.	3.8	77
39	β T Cells Facilitate Adaptive Immunity against West Nile Virus Infection in Mice. Journal of Immunology, 2006, 177, 1825-1832.	0.8	76
40	Hyperglycemia-Induced Vasculopathy in the Murine Conceptus Is Mediated via Reductions of VEGF-A Expression and VEGF Receptor Activation. American Journal of Pathology, 2001, 158, 1199-1206.	3.8	75
41	Platelet endothelial cell adhesion molecule-1 modulates endothelial cell motility through the small G-protein Rho. FASEB Journal, 2003, 17, 1458-1469.	0.5	74
42	Mechanisms of cytoskeletal regulation: Modulation of aortic endothelial cell protein band 4.1 by the extracellular matrix. Journal of Cellular Physiology, 1986, 127, 423-431.	4.1	70
43	Vascular endothelial growth factor mediates reactive angiogenesis in the postnatal developing brain. Developmental Brain Research, 1997, 100, 52-61.	1.7	70
44	MAPKs (ERK $\frac{1}{2}$, p38) and AKT Can Be Phosphorylated by Shear Stress Independently of Platelet Endothelial Cell Adhesion Molecule-1 (CD31) in Vascular Endothelial Cells. Journal of Biological Chemistry, 2005, 280, 11185-11191.	3.4	68
45	Cyclic Strain Stimulates Early Growth Response Gene Product 1-Mediated Expression of Membrane Type 1 Matrix Metalloproteinase in Endothelium. Laboratory Investigation, 2002, 82, 949-956.	3.7	67
46	Matrix composition, organization and soluble factors: Modulators of microvascular cell differentiation in vitro. Kidney International, 1992, 41, 560-565.	5.2	61
47	Hyperglycemia-Induced Vasculopathy in the Murine Vitelline Vasculature. American Journal of Pathology, 1999, 154, 1367-1379.	3.8	60
48	A Monoclonal Antibody Specific for the Amino Terminal Cleavage Site of Procollagen Type I. FEBS Journal, 1983, 134, 183-189.	0.2	59
49	Modulation of vascular cell behavior by transforming growth factors γ . Molecular Reproduction and Development, 1992, 32, 121-126.	2.0	59
50	CD44 Regulation of Endothelial Cell Proliferation and Apoptosis via Modulation of CD31 and VE-cadherin Expression. Journal of Biological Chemistry, 2014, 289, 5357-5370.	3.4	58
51	Role of C5 in the development of airway inflammation, airway hyperresponsiveness, and ongoing airway response. Journal of Clinical Investigation, 2005, 115, 1590-1600.	8.2	58
52	NEU1 Sialidase Regulates the Sialylation State of CD31 and Disrupts CD31-driven Capillary-like Tube Formation in Human Lung Microvascular Endothelia. Journal of Biological Chemistry, 2014, 289, 9121-9135.	3.4	57
53	Nitric oxide modulates murine yolk sac vasculogenesis and rescues glucose induced vasculopathy. Development (Cambridge), 2004, 131, 2485-2496.	2.5	56
54	Regulation of human colonic cell line proliferation and phenotype by sodium butyrate. Digestive Diseases and Sciences, 1996, 41, 1986-1993.	2.3	54

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55	Vascular Endothelial Growth Factor Expression, β -Catenin Tyrosine Phosphorylation, and Endothelial Proliferative Behavior: A Pathway for Transformation?. Laboratory Investigation, 2003, 83, 1105-1115.	3.7	53
56	Platelet-endothelial cell adhesion molecule-1 modulates endothelial migration through its immunoreceptor tyrosine-based inhibitory motif. Biochemical and Biophysical Research Communications, 2003, 301, 243-249.	2.1	51
57	Transcriptional Up-regulation of Endothelial Cell Matrix Metalloproteinase-2 in Response to Extracellular Cues Involves GATA-2. Journal of Biological Chemistry, 2003, 278, 47785-47791.	3.4	50
58	CD44 Deficiency Contributes to Enhanced Experimental Autoimmune Encephalomyelitis. American Journal of Pathology, 2013, 182, 1322-1336.	3.8	47
59	CD44 Promotes Inflammation and Extracellular Matrix Production During Arteriovenous Fistula Maturation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 1147-1156.	2.4	47
60	Germinal matrix microvascular maturation correlates inversely with the risk period for neonatal intraventricular hemorrhage. Developmental Brain Research, 1995, 84, 142-149.	1.7	44
61	CD44 regulates vascular endothelial barrier integrity via a PECAM-1 dependent mechanism. Angiogenesis, 2013, 16, 689-705.	7.2	43
62	PECAM-1 promotes β -catenin accumulation and stimulates endothelial cell proliferation. Biochemical and Biophysical Research Communications, 2003, 303, 212-218.	2.1	42
63	Vascular Cell Responses to TGF- β 3 Mimic Those of TGF- β 1 in vitro. Growth Factors, 1991, 5, 149-158.	1.7	40
64	VEGF-A and Semaphorin3A: Modulators of vascular sympathetic innervation. Developmental Biology, 2009, 334, 119-132.	2.0	38
65	Temporal Regulation of venous Extracellular Matrix Components during Arteriovenous Fistula Maturation. Journal of Vascular Access, 2015, 16, 93-106.	0.9	38
66	PECAM-1 Is a Modulator of STAT Family Member Phosphorylation and Localization: Lessons from a Transgenic Mouse. Developmental Biology, 2001, 232, 219-232.	2.0	37
67	Effect of tyrosine kinase inhibition on basal and epidermal growth factor-stimulated human Caco-2 enterocyte sheet migration and proliferation. Journal of Cellular Physiology, 1994, 160, 491-501.	4.1	36
68	Neutrophils Lacking Platelet-Endothelial Cell Adhesion Molecule-1 Exhibit Loss of Directionality and Motility in CXCR2-Mediated Chemotaxis. Journal of Immunology, 2005, 175, 3484-3491.	0.8	35
69	Glycocalyx-Like Hydrogel Coatings for Small Diameter Vascular Grafts. Advanced Functional Materials, 2020, 30, 1908963.	14.9	33
70	Proteomic-Based Detection of a Protein Cluster Dysregulated during Cardiovascular Development Identifies Biomarkers of Congenital Heart Defects. PLoS ONE, 2009, 4, e4221.	2.5	32
71	MAPKAPK2-mediated LSP1 phosphorylation and FMLP-induced neutrophil polarization. Biochemical and Biophysical Research Communications, 2007, 358, 170-175.	2.1	31
72	PECAM-1 modulates thrombin-induced tissue factor expression on endothelial cells. Journal of Cellular Physiology, 2007, 210, 527-537.	4.1	31

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73	An in vitro three-dimensional coculture model of cerebral microvascular angiogenesis and differentiation. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 1997, 33, 684-691.	1.5	30
74	Increased Oxidative Stress and Hypoxia Inducible Factor-1 Expression during Arteriovenous Fistula Maturation. <i>Annals of Vascular Surgery</i> , 2017, 41, 225-234.	0.9	30
75	PECAM-1: a multifaceted regulator of megakaryocytopoiesis. <i>Blood</i> , 2007, 110, 851-859.	1.4	29
76	Histamine inhibits conducted vasodilation through endothelium-derived NO production in arterioles of mouse skeletal muscle. <i>FASEB Journal</i> , 2004, 18, 280-286.	0.5	28
77	Identification of the regions of PECAM-1 involved in β^2 - and β^3 -catenin associations. <i>Biochemical and Biophysical Research Communications</i> , 2005, 329, 1225-1233.	2.1	27
78	Minocycline mitigates the effect of neonatal hypoxic insult on human brain organoids. <i>Cell Death and Disease</i> , 2019, 10, 325.	6.3	27
79	Modeling the neurovascular niche: Murine strain differences mimic the range of responses to chronic hypoxia in the premature newborn. <i>Journal of Neuroscience Research</i> , 2008, 86, 1227-1242.	2.9	25
80	GSK-3 β : a signaling pathway node modulating neural stem cell and endothelial cell interactions. <i>Angiogenesis</i> , 2011, 14, 173-185.	7.2	25
81	Interactions of Vascular Cells with Transforming Growth Factors- β . <i>Annals of the New York Academy of Sciences</i> , 1990, 593, 243-258.	3.8	24
82	Co-culture of primary neural progenitor and endothelial cells in a macroporous gel promotes stable vascular networks in vivo. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008, 19, 1469-1485.	3.5	24
83	Photoinhibition of smooth muscle cell migration: Potential therapy for restenosis. <i>Lasers in Surgery and Medicine</i> , 1993, 13, 4-11.	2.1	22
84	CD44 Influences Fibroblast Behaviors Via Modulation of Cell-Cell and Cell-Matrix Interactions, Affecting Survivin and Hippo Pathways. <i>Journal of Cellular Physiology</i> , 2016, 231, 731-743.	4.1	22
85	Gram-Negative Endocarditis Following Cystoscopy. <i>Journal of Urology</i> , 1978, 119, 134-137.	0.4	21
86	Disturbed shear stress reduces Klf2 expression in arterial-venous fistulae in vivo. <i>Physiological Reports</i> , 2015, 3, e12348.	1.7	21
87	Bone Marrow Monocyte PECAM-1 Deficiency Elicits Increased Osteoclastogenesis Resulting in Trabecular Bone Loss. <i>Journal of Immunology</i> , 2009, 182, 2672-2679.	0.8	18
88	Strain Differences in Behavioral and Cellular Responses to Perinatal Hypoxia and Relationships to Neural Stem Cell Survival and Self-Renewal. <i>American Journal of Pathology</i> , 2009, 175, 2133-2145.	3.8	18
89	Demonstration of cutaneous doxorubicin extravasation by rhodamine-filtered fluorescence microscopy. <i>Journal of Surgical Oncology</i> , 1986, 31, 21-25.	1.7	17
90	Maternal Diabetes: Effects on Embryonic Vascular Development—A Vascular Endothelial Growth Factor-A-mediated Process. <i>Pediatric and Developmental Pathology</i> , 2003, 6, 334-341.	1.0	17

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91	The roles of nitric oxide in murine cardiovascular development. <i>Developmental Biology</i> , 2006, 292, 25-33.	2.0	17
92	Adhesion Molecule-Mediated Hippo Pathway Modulates Hemangioendothelioma Cell Behavior. <i>Molecular and Cellular Biology</i> , 2014, 34, 4485-4499.	2.3	17
93	MMP-2: A modulator of neuronal precursor activity and cognitive and motor behaviors. <i>Behavioural Brain Research</i> , 2017, 333, 74-82.	2.2	15
94	New paradigms of signaling in the vasculature: ephrins and metalloproteases. <i>Current Opinion in Biotechnology</i> , 1999, 10, 536-540.	6.6	14
95	Differential Effects of Shear Stress and Cyclic Strain on Sp1 Phosphorylation by Protein Kinase C η Modulates Membrane Type 1 α Matrix Metalloproteinase in Endothelial Cells. <i>Endothelium: Journal of Endothelial Cell Research</i> , 2008, 15, 33-42.	1.7	13
96	Laminar shear, but not orbital shear, has a synergistic effect with thrombin stimulation on tissue factor expression in human umbilical vein endothelial cells. <i>Journal of Vascular Surgery</i> , 2011, 54, 480-488.	1.1	11
97	The immune response to human type III and type V (AB2) collagen: antigenic determinants and genetic control in mice. <i>European Journal of Immunology</i> , 1981, 11, 90-94.	2.9	10
98	Pulsatile to-fro flow induces greater and sustained expression of tissue factor RNA in HUVEC than unidirectional laminar flow. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H1345-H1351.	3.2	10
99	Stratified control of IGF-I expression by hypoxia and stress hormones in osteoblasts. <i>Gene</i> , 2014, 539, 141-151.	2.2	9
100	Modulation of Sox10, HIF-1 β , Survivin, and YAP by Minocycline in the Treatment of Neurodevelopmental Handicaps following Hypoxic Insult. <i>American Journal of Pathology</i> , 2015, 185, 2364-2378.	3.8	9
101	Varying Effects of Hemodynamic Forces on Tissue Factor RNA Expression in Human Endothelial Cells. <i>Journal of Surgical Research</i> , 2011, 170, 150-156.	1.6	7
102	A hydrogel-endothelial cell implant mimics infantile hemangioma: modulation by survivin and the Hippo pathway. <i>Laboratory Investigation</i> , 2015, 95, 765-780.	3.7	7
103	The role of endothelial HIF-1 β in the response to sublethal hypoxia in C57BL/6 mouse pups. <i>Laboratory Investigation</i> , 2017, 97, 356-369.	3.7	7
104	Modeling the Neurovascular Niche: Unbiased Transcriptome Analysis of the Murine Subventricular Zone in Response to Hypoxic Insult. <i>PLoS ONE</i> , 2013, 8, e76265.	2.5	7
105	Short Term Interactions with Long Term Consequences: Modulation of Chimeric Vessels by Neural Progenitors. <i>PLoS ONE</i> , 2012, 7, e53208.	2.5	6
106	Somatic PRKAR1A mutation in sporadic atrial myxoma with cerebral parenchymal metastases: a case report. <i>Journal of Medical Case Reports</i> , 2019, 13, 389.	0.8	6
107	The evolving roles of cell surface proteases in health and disease: Implications for developmental, adaptive, inflammatory, and neoplastic processes. <i>Current Topics in Developmental Biology</i> , 2003, 54, 391-410.	2.2	4
108	As human lung microvascular endothelia achieve confluence, src family kinases are activated, and tyrosine-phosphorylated p120 catenin physically couples NEU1 sialidase to CD31. <i>Cellular Signalling</i> , 2017, 35, 1-15.	3.6	4

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109	A Static Self-Directed Method for Generating Brain Organoids from Human Embryonic Stem Cells. Journal of Visualized Experiments, 2020, , .	0.3	2
110	ÂNOD Mice Having a Lyn Tyrosine Kinase Mutation Exhibit Abnormal Neutrophil Chemotaxis. Journal of Cellular Physiology, 2017, 232, 1689-1695.	4.1	1
111	Cryopreserved Dermis is an Ideal Substrate for the Engraftment and Maturation of Human Epidermal Keratinocyte Cultures. Materials Research Society Symposia Proceedings, 1987, 110, 363.	0.1	0
112	Need MT1-MMP? Just say NO!. Blood, 2007, 110, 2790-2791.	1.4	0
113	Angiogenesis, the Neurovascular Niche and Neuronal Reintegration After Injury. , 2010, , 145-167.		0
114	Cyclic Strain Delays the Expression of Tissue Factor Induced by Thrombin in Human Umbilical Vein Endothelial Cells. International Journal of Angiology, 2011, 20, 157-166.	0.6	0
115	Cellâ€œextracellular matrix interactions in oral tumorigenesis: Roles of podoplanin and CD44 and modulation of Hippo pathway. Journal of Oral Biosciences, 2015, 57, 45-53.	2.2	0
116	PECAMâ€œ1: a multiâ€œfaceted regulator of megakaryocytopoiesis. FASEB Journal, 2006, 20, A633.	0.5	0